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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/817,572	03/26/2001	James M. Kennedy	56274.US 7767	
408	7590 06/04	003		
LUEDEKA, NEELY & GRAHAM, P.C. P O BOX 1871			EXAMINER	
KNOXVILLE, TN 37901			KIM, AHSHIK	
			ART UNIT	PAPER NUMBER
			2876	
			DATEMAN ED OCIOARDOO	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)			
		09/817,572	KENNEDY, JAMES M.			
		Examiner	Art Unit			
	The MAN INC DATE AND	Ahshik Kim	2876			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1)[	Responsive to communication(s) filed on 03/0	04/03 (Amendment) .				
2a)□		is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims	,,				
1	Claim(s) 9-21 and 23-28 is/are pending in the	• •				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>9-21 and 23-28</u> is/are rejected.						
7)	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) <u>                                     </u>	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)[] 1	11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
	1. Certified copies of the priority documents					
	2. Certified copies of the priority documents					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	knowledgment is made of a claim for domestic					
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)			
S. Patent and Trac	temark Office					

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### **DETAILED ACTION**

#### Amendment

Receipt is acknowledged of the amendment filed on March 4, 2003. In the amendment,
 claims 1-8, and 22 are canceled, claims 9, 10, 13-20, and 23 are amended, and claims 24-28 are newly added. Currently, claims 9-21 and 23-28 remain for examination.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 9-11, 13-26, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Look (US 5,915,032) in view of Itoh et al. (US 5,760,384).

Re claims 9, 15, 20, 21, 24-26, and 28, Look teaches a remote code/indicia reading

system 10, comprising a light source a light source 30 for providing illumination, a reflective
medium disposed on the target 12, which is remote from the light source, a detector 40, and an
analyzer 45, and electronics 50 which processes the captured light/signal and extract the
meaningful information (col. 1, lines 49+). Although Look is silent on the structural description
of the system, as shown in the only figure, the component parts 20, 30, 40, 45 and 50 are

constructed to protect sensitive optical/illuminating device.

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Look fails to specifically teach or fairly suggest a cover over the indicia on the reflective medium, which responds to infrared light, causing the indicia below the cover invisible to human eyes.

Ito discloses an indicia reading system wherein the cover over the barcode wherein the cover is infrared-transparent and causing the barcode under the cover invisible (col. 1, lines 41+).

In view of Itohs' teaching, it would have been obvious to an ordinary skill in the art at the time the invention was made to employee a well-known cover layer which causes the barcode to appear only when the cover is applied with a specific range of light. Such cover functions as a means to thwart unauthorized forgery or reproduction of the tags/plate. Therefore, such modification would have been an obvious extension as taught by Itoh for reducing potential tampering by unauthorized individuals, and therefore an obvious expedient.

Re claims 13 and 17, the light sensing device further includes camera incorporating charge-coupled device (CCD), designed to detect infrared or the near range of beams (col. 2, lines 54+). Since the image is captured in the pixel array, and each pixel of CCD is assigned a scalar value, it can be considered that the image captured is processed by each bit map.

Re claims 14 and 16, although Look is silent about the dimension or configuration of the component parts, since larger field of view is preferred, the distance between the plate and the light beam should be as large as possible (col. 5, lines 28+). Also, the distance between the light sources 20, 30 and the detector 40 is not large as shown in the picture, and the angle created by the 40 and 20/30 via the license plate is also small.

Re claims 18 and 23, as indicated in Itoh (col. 1, lines 12+), the code storage portion includes a barcode format.

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Re claim 19, as further explained in the background and detailed description section (col. 1, lines 20+, lines 49+), the license plate is retro-reflective.

3. Claims 12 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Look (US 5,915,032) as modified by Itoh et al. (US 5,760,384) as applied to claim 9 and 26 above, and further in view of Duret et al. (US 4,605,946). The teachings of Look as modified by Itoh have been discussed above.

Look/Ito fail to specifically teach or fairly suggest of utilizing a decoy barcode to discourage unauthorized reading of the barcode.

Duret teaches superimposing dummy marks/barcodes (20, 21, 30, 31, 32, 33) over the genuine barcode (see figure 6) to prevent unauthorized copying of the data (col. 5, lines 41+).

In view of Duret's teaching, it would have been obvious to an ordinary skill in the art at the time the invention was made to employ well-known dummy/decoy barcode to the teachings of Look/Itoh in order to prevent unauthorized copying of the data. Purposes for using barcode or other machine-readable code, among other things, are to read the code by the machine in speedy manner, and to have the designated machines decipher the captured code properly. Accordingly, incorporating additional forgery-thwarting scheme would have been an obvious expedient, safeguarding the encoded information.

## Response to Arguments

4. The Examiner appreciates Applicant's amending claim 9, which further limits and clarifies claimed invention. Although the Examiner cited Ruell references on the basis that the hologram of Ruell is a "cover" layer on the license plate containing alpha-numeric characters,

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the Examiner agrees with the Applicant's argument that the hologram does not make the underlying indicia visible or invisible. The Examiner also notes that the limitation pertaining to the cover was recited in claim 9 of the original application. Accordingly, this Office Action, relying on new references to treat the cover in claim 9, and a decoy bar code recited in claims 12 and 27 are made *non-final*.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Ahshik Kim* whose telephone number is (703)305-5203. The examiner can normally be reached between the hours of 6:00AM to 3:00PM Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee, can be reached on (703) 305-3503. The fax number directly to the Examiner is (703) 746-4782. The fax phone number for this Group is (703)308-7722, (703)308-7724, or (703)308-7382.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [ahshik.kim@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

30 Ahshik Kim

Patent Examiner

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May 28, 2003

MICHAEL G. LEE

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800